

CLAIMS

1. A wave energy device in the form of a heave-resistant vessel comprising one or more flow paths into which water can be urged by wave action and an energy extractor in fluid communication with said path(s) and arranged to extract energy from air movements in said path(s) caused by said wave action.
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2. A wave energy device according to Claim 1, wherein there is a plurality of flow paths, at least some of which have different lengths.
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3. A wave energy device according to Claim 1 or 2, wherein the or each flow path is in communication with the atmosphere, at some point beyond the energy extractor.
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4. A wave energy device according to Claim 1, 2 or 3, wherein there is a plurality of flow paths comprised of a group of chambers.
5. A wave energy device according to any one of Claims 1 to 4, wherein the wave entrance of one or more flow paths is flared.
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6. A wave energy device according to any one of Claims 1 to 5, wherein two or more flow paths combine before communicating with the energy extractor.

7. A wave energy device according to any one of Claims 1 to 6, further comprising a tethering arrangement for providing, at least in part, said heave-resistance.

5 8. A wave energy device as claimed in Claim 7 wherein said heave resistance is provided by a positive buoyancy and tethering arrangement.

9. A wave energy device according to any one of Claims 1 to 8, wherein said heave resistance is provided, at least in part, by constraining the footprint area of
10 the device.

10. A wave energy device according to any one of Claims 1 to 9, wherein said energy extractor is turbine based.

15 11. A wave energy device as claimed in any preceding Claim wherein the said device is in the form of a self buoyant heave-resistant vessel.

12. A wave energy device as claimed in any preceding Claim wherein the said energy extractor comprises a bi-directional energy extractor, optionally having
20 valves for rectifying an oscillating airflow.

13. A wave energy device as claimed in any preceding Claim wherein there is a plurality of flow paths, at least some of which have different flow cross-sectional areas.

14. A wave energy device as claimed in any preceding Claim wherein there is a plurality of flow paths, at least some of which have different internal flow volumes.